

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

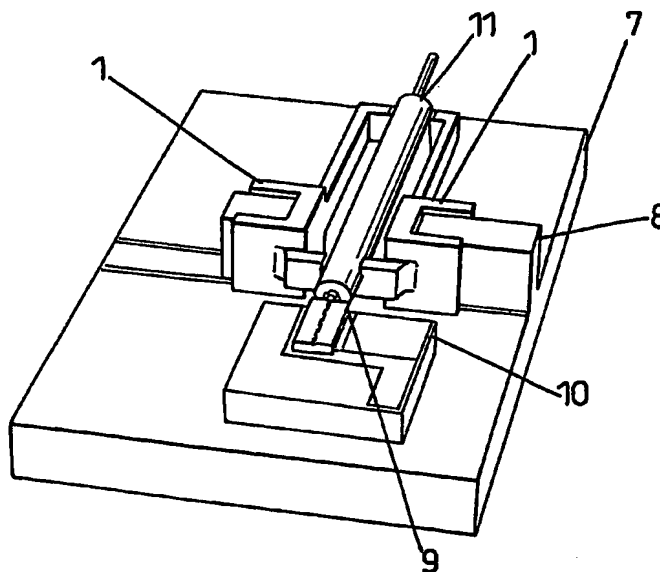
PCT

(10) International Publication Number
WO 2004/053556 A1

- (51) International Patent Classification⁷: **G02B 6/42**
- (21) International Application Number:
PCT/GB2003/005074
- (22) International Filing Date:
21 November 2003 (21.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0228457.8 6 December 2002 (06.12.2002) GB
- (71) Applicant (for all designated States except US): **INTENSE PHOTONICS LIMITED** [GB/GB]; 4 Stanley Boulevard, Hamilton International Technology Park, High Blantyre, Glasgow G72 0BN (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **KENDALL, Adrian** [GB/GB]; 2 Calderside Grove, East Kilbride G74 3SP (GB).
- (74) Agent: **CHARIG, Raymond**; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report

[Continued on next page]

(54) Title: OPTICAL FIBRE ALIGNMENT MECHANISM



(57) Abstract: An alignment and fixing apparatus for positioning and securing an optical fibre (11) in alignment with an optical source (9), in which the optical fibre (11) is coupled, at two longitudinally separated points along the fibre (11), to respective ones of a pair of cantilever arms. Lateral movement of one of the cantilever arms induces a smaller lateral movement of the other cantilever arm, thereby enabling precision lateral displacement of an end of the fibre (11) proximal to the optical source (9).

WO 2004/053556 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.